


Mobile X-ray System
MobileDaRt Evolution
MX8 Version 





Evolutionary Modernity

MobileDaRt Evolution

MX8 Version **C**

Responsive and maneuverable MOBILITY
Instant image verification offering IMMEDIACY
A large viewing monitor for enhanced FUNCTIONALITY

MobileDaRt Evolution is further
refined into the MX8 c type featuring a collapsible
column to broaden the mobile's operability.

More than a Mobile, an Experience

Inch-Mover for Bedside Positioning

The main unit can be moved forward or backward with switches conveniently located on the collimator. The technologist can adjust positioning more precisely without moving around the patient bed.



Adjustable Irradiation Fields with Dual Side Controls

The collimator knobs and lamp buttons are located on both the front and the back side, allowing the technologist to easily confirm and change the irradiation field.



For Optimized performance

Wireless Barcode reader *1)

OPTION

The barcode reader can effortlessly assist with patient registration for imaging in hospital rounds. With its wireless feature, the technologist can easily reach patients to scan their barcode.



Positioning from Any Direction

Pressing the "All Free" button releases the electromagnetic locks for the telescopic arm and column at the same time, thus enabling simple one-step positioning. Multiple "All-Free" buttons are located around the system, so the technologist can access the system from any direction.



Wireless Solution for Exposure Switch *1)

OPTION

A wireless hand switch or IR remote controller allows you to perform exposures remotely for even easier usability.



Wireless hand switch



IR remote controller

FPD Rechargeable in the Main Unit

OPTION

The FPD can be charged in the main unit. A connector for charging the FPD battery is mounted inside the FPD bin at the rear of the main unit.



Convenient Battery Charging process

The conveniently accessible power plug is located just under the handle bar on the back side of unit.



Scatter Correction enables Gridless Radiography

OPTION

The system can be equipped with a function to remove scatter noise and improve image contrast, making it possible to perform exposures without the use of a grid therefore making it easier to handle FPD's.

Built-in AEC Assistance *2)

OPTION

The FPD is equipped with Automatic Exposure Control (AEC) assistance to support the dose reduction for daily hospital rounds.

Select the Perfect FPD for Your Application

FPD models are available to meet a wide variety of clinical needs, such as the physical size and data transmission. You can share one FPD between multiple units or you can add various size FPD's.

*1) Availability of the option depends on the regional radio wave regulation. Please contact your sales representative regarding the availability.

*2) Only available for systems configured with CXDI-Elite. Please contact your sales representative regarding the availability.

Operator-Friendly Design

ROUNDS

Hospital Rounds



Intuitive Maneuverability

Responsive and Smooth Driving

Optimized power assist system delivers natural light touch driving whether moving forward, stopping quickly or changing directions. The system maneuvers easily and naturally to support comfortable operation.

Designed to make every round as Comfortable as possible

The low-profile and curved shape creates a natural driving experience.

Designed for Everyday Use

The mobile's large storage bin stores FPDs as well as accessories like pens and markers. The front bins can provide spaces for wipes and other accessories.



 **GLIDE VIEW** function



Adjustable handle height

OPTION

The handle height can be adjusted anytime based on the operator's comfort level and preference.



Heightened Security

Keyless Entry

OPTION

Instead of a key, each user can have their own password enabling accessibility to preferences and preset X-ray parameters. This further enhances security and workflow.



IC card Login *)

OPTION

A multiple user's IC card can be registered in advance. Simply passing over card reader will boot up the system.

Anti-theft FPD lock function

FPD storage bin is equipped with a detector lock function that can heighten the security level against FPD theft.



*) Availability of the option depends on the regional radio wave regulation. Please contact your sales representative regarding the availability.

Great Forward Visibility offering Peace of mind

The collapsible column has been developed to enhance forward visibility during travel, making it ideal for daily hospital rounds.



Flexible Operability in Confined Spaces

ICU
Intensive Care Units

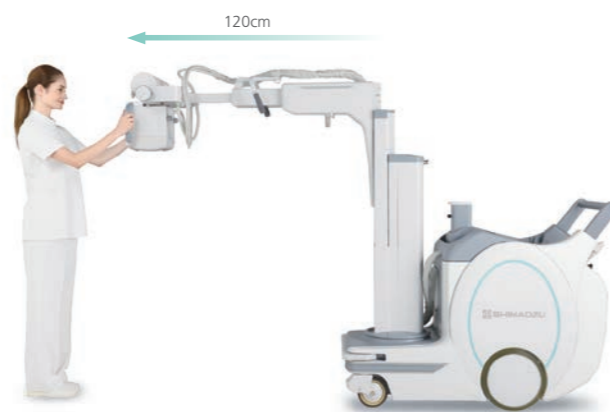


Comfortable Examinations for Patients

NICU
Neonatal Intensive Care Units

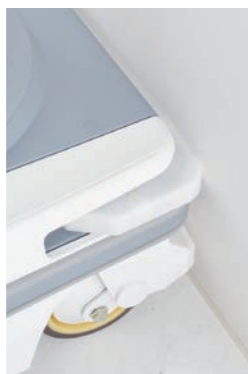
Wide Exposure Range

The system is especially useful for imaging in ICUs, where there are numerous devices around the patient. With the low profile X-ray tube and the 120 cm extension telescopic arm, the MX8 easily positions for patient imaging.



Shock-resistant body design

The body cover has been strengthened to prevent damage should the unit hit an object when moving around the wards. The unique soft-touch bumper automatically stops the unit when even the slightest pressure is detected. The stylish body is designed to be highly shock-resistant.



Large Image Storage Capacity

A large storage capacity provides peace of mind when performing repeated radiography. A 7000-images storage capacity in the main unit makes it easy to reference past images and quickly compare images before and after surgery.



Designed to Minimize Radiation Exposure

The estimated Dose Area Product (DAP) is displayed prior to exposure, and the calculated DAP value is stored for post-exposure management. (measured DAP instrument is optional.) Also, a high sensitivity FPD helps reduce radiation exposure for imaging of neonatal babies or infants.



Pediatric Filter *) Supported

In order to cut soft X-rays that do not contribute to image acquisition, the pediatric filter can be installed in the collimator. Using a filter reduces radiation exposure efficiently while image quality is maintained.



Compact FPD for Pediatric Care

The compact FPD fits inside the cassette tray of an incubator.

*) The pediatric filter itself is not an optional item. Please use one belonging to your facility.



Designed for Quick Action

ER
Emergency Room



Meeting the Needs for
Surgical Environments

OR
Operation Room

Designed for Sterile Equipment Covers

For daily use, extra storage spaces are provided to store wipes, pens, markers, etc. Grooves have been added for holding the FPD vertically while putting a sterile cover on the unit.



Excellent waterproofing

The FPDs conform to the IP57-rated* water proof standard to prevent ingress of liquids.

Minimal Startup Time for Emergency Needs

System startup takes only one minute and is immediately ready for use in emergency conditions.



Quick Image Verification

Displaying images just 2 seconds after exposure is especially useful in emergency rooms (ER) where time to treat is critical for saving lives or reducing paralysis. The ER staff can see images almost immediately on the system reference display for preliminary image verification, allowing treatment to continue without delay.



Integrated Design for Easy Clean-up

The 19-inch large touch panel display is excellent for quickly viewing images, and the flat screen design makes it easy to clean-up.

Retained Surgical Instruments Can Be Verified Quickly

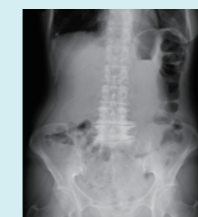
On-site image review is helpful to reconfirm any retained surgical instruments.

Connection for Secondary monitor OPTION

The ability to connect an external monitor is especially helpful for sharing images with all surgical team members in operating rooms.

Retained Object Confirmation Support Image Processing OPTION

Display images processed by Smart DSI (Detection Support with Image processing).^{*1}



Acquired image data



Processed image by Smart DSI

Smart DSI
Retained Object Confirmation Support Image Processing^{*2}

Developed with AI technology, Smart DSI aids the detection of objects retained in the body by enhancing regions of the image that potentially show surgical needles, gauze with radiopaque threads, and other foreign objects.

Scan me, >

^{*1}) Do not rely solely on the imaging processing capabilities of Smart DSI when determining if foreign objects are retained in the patient. Use visual image confirmation, gauze counts, and other methods in reaching a final judgment.
^{*2}) The AI (artificial intelligence) technology used in Smart DSI is not a self-guided iterative learning-type AI.

*) Waterproof property depends on the FPD models.

Label Description: Mobile X-ray System MobileDaRt Evolution

Founded in 1875, Shimadzu Corporation, a leader in the development of advanced technologies, has a distinguished history of innovation built on the foundation of contributing to society through science and technology. We maintain a global network of sales, service, technical support and applications centers on six continents, and have established long-term relationships with a host of highly trained distributors located in over 100 countries. For information about Shimadzu, and to contact your local office, please visit our website at www.shimadzu.com



Shimadzu Corporation

Headquarters

1, Nishinokyo-Kuwabara-cho, Nakagyo-ku, Kyoto 604-8511, Japan
<https://www.shimadzu.com/med/>



Shimadzu Corporation Medical Systems Division has been certified by TÜV Rheinland as a manufacturer of medical systems in compliance with ISO9001:2015 Quality Management Systems and ISO13485:2016 Medical Devices Quality Management Systems.

Remarks:

- Every value in this catalogue is a standard value, and it may vary a little from the actual at each site.
- The appearances and specifications are subject to change for reasons of improvement without notice.
- Items and components in the photos may include optional items. Please confirm with your sales representative for details.
- Certain configurations may not be available pending regulatory clearance. Contact your Shimadzu representative for information on specific configurations.
- Before operating this system, you should first thoroughly review the Instruction Manual.